MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
0·0	-	0·60	= 72·0	
·0	-	0·60	= 72·0	
4·0	-	0·60	= 57·60	
·0	-	0·60	= 72·0	
·0	-	0·60	= 72·0	
5	-	0·60	= 27·60	
		Total=	1731·60 cum	
8				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427792

erial No. Main-bill:-

ame of Work Improvements to drains of From 11th to 14th cross roads To. of Jakkur layout in ward no 7

ame of Contractor of nature of Agency byatarayanapura.

ate of commencement of work ↳ M/s. KRIDL

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.01:- Earthwork excavation by manual means in ordinary soil, involving an average horizontal throw upto 2m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.						
	Qty vide page no. 4278 | 427785 →					486.81 cum	
	At the rate of Rs. 86.97 →						42313.53
	Item No.09:- loading and unloading charges						
	Qty vide Item No.01 →					486.81 cum	
	At the rate of Rs. 106.00 →						51601.85

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item. No. 02:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms. th well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete., Qty vide page. no. 427278 | 427787 → 95.39 cum At the rate of Rs. 5159.01 →					492 118.90	
	Item. No. 04:- Providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design..						

SUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8

in position plain cement concrete of
uomm and down size graded granite
ncrete laid in layers not exceeding 15cms.
ndation and plinth, including cost of all
machinery, curing complete.,
78 | 427787 → 95.39 cum
.02 →
492118.90

reinforcement for RCC work including
nding, hooking, placing in position,
wherever required, tying with binding
djoining members wherever necessary

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427793

erial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Qty vide page no.	4278	4277790	→ 11.32 tonne.			
	At the rate of Rs.	64243.42 →					727235.50
	Item No. 05:- Providing and removing centering, shuttering, strutting, propping etc, for columns, pillars, piers, abutments, post and struts, square/rectangular slabs/side walls polygon in plan including cost of materials, labour complete as per specifications.						
	Qty vide page no.	4278	4277791	→ 1704.00 sqm			
	At the rate of Rs.	387.96 →					661083.80
	Item No. 03:- Providing and laying in position reinforced cement concrete of design						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Mix M30 with OPC cement @ 320kgs with 20mm and down size coarse aggregates @0.459 cum & fine aggregates @0.678 cum & fine with superplasticizers @ 3lts confirming to IS 9103-1999 Re-affirmed-2008.						
	5th 'b' cross-LHS:-						
	Bottom:-						
	0-26	01	26.0	0.75	0.15	= 2.93	
	0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-130	01	10.0	0.75	0.15	= 1.13	
	Sidewall:-						
	C/F.C.	1x2=2	26.0	0.15	0.60	= 4.68	
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	
						33.03	

Material No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
	2
	C/F.C.
	5th 'b' cross-RHS:- 0-26
	Bottom:- 0-30
	30-60
	60-90
	90-120
	120-130
	Sidewall:-

MENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
ge with 20mm and down size aggregate @ 0.878 cum & fine superplasticizers @ 3lts confirming 008.,				
6.0	0.75	0.15	= 2.93	
0.0	0.75	0.15	= 3.38	
0.0	0.75	0.15	= 3.38	
30.0	0.75	0.15	= 3.38	
0.0	0.75	0.15	= 3.38	
0.0	0.75	0.15	= 1.13	
26.0	0.15	0.60	= 4.68	
30.0	0.15	0.60	= 5.40	
0.0	0.15	0.60	= 5.40	

33.03

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427794

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 33.03 7	Reference to last Measurement 8
		1×2=2	30.0	0.15	0.60	= 5.40	
		1×2=2	30.0	0.15	0.60	= 5.40	
	CK F.C.	1×2=2	10.0	0.15	0.60	= 1.80	
						45.63 cum.	
	5th 'B' cross-RHS:- 0-26	01	26.0	0.75	0.15	= 2.93	
	Bottom:- 0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-130	01	10.0	0.75	0.15	= 1.13	
	Sidewall:-	1×2=2	26.0	0.15	0.60	= 4.68	
		1×2=2	30.0	0.15	0.60	= 5.40	

73.29.

MEASUREMENT BOOK

Date	Full description, etc, of work		Dimensions				Contents	Reference to Measurement
			Number	Length	Breadth	Depth	73.29	
1	2		3	4	5	6	7	8
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	10.0	0.15	0.60	= 1.80	
							45.63 cum	
	6th 'B' cross-LHS:-							
	Bottom	0-30	01	30.0	0.75	0.15	= 3.38	
		30-60	01	30.0	0.75	0.15	= 3.38	
		60-90	01	30.0	0.75	0.15	= 3.38	
		90-107	01	17.0	0.75	0.15	= 1.91	
	sidewall:-							
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	17.0	0.15	0.60	= 3.06	
							31.30 cum.	
	6th 'B' cross-RHS:-	0-30	01	30.0	0.75	0.15	= 3.38	
	Bottom	30-60	01	30.0	0.75	0.15	= 3.38	
							129.35	

Material No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work		N
	2		
		60-90	
		90-113	
		113-117	
	sidewall:-		
	7th 'B' cross LHS:-	0-30	
	Bottom:-	30-60	
		60-90	

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	73.29 7	8
30·0	0·15	0·60 =	5·40	
30·0	0·15	0·60 =	5·40	
30·0	0·15	0·60 =	5·40	
10·0	0·15	0·60 =	1·80	
			45·63 cum	
30·0	0·75	0·15 =	3·38	
30·0	0·75	0·15 =	3·38	
30·0	0·75	0·15 =	3·38	
17·0	0·75	0·15 =	1·91	
30·0	0·15	0·60 =	5·40	
30·0	0·15	0·60 =	5·40	
30·0	0·15	0·60 =	5·40	
17·0	0·15	0·60 =	3·06	
			31·30 cum.	
30·0	0·75	0·15 =	3·38	
30·0	0·75	0·15 =	3·38	

129.35

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427795

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2		Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 129.35 7	Reference to last Measurement 8
		60-90	01	30·0	0·75	0·15 =	3·38	
		90-113	01	23·0	0·75	0·15 =	2·59	
		113-117	01	4·0	0·75	0·15 =	0·45	
	Sidewall:-		1×2 = 2	30·0	0·15	0·60 =	5·40	
	C&F.C.		1×2 = 2	30·0	0·15	0·60 =	5·40	
			1×2 = 2	30·0	0·15	0·60 =	5·40	
			1×2 = 2	23·0	0·15	0·60 =	4·14	
			1×2 = 2	04	0·15	0·60 =	0·72	
							34·22 cum	
	7th 'D' cross LHS:-	0-30	01	30·0	0·75	0·12 =	2·70	
	Bottom:-	30-60	01	30·0	0·75	0·12 =	2·70	
		60-90	01	30·0	0·75	0·12 =	2·70	

164.91

MEASUREMENT BOOK

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement
			Number	Length	Breadth	Depth	164.91	
1	2		3	4	5	6	7	8
		90-114	01	24.0	0.75	0.15	= 2.16	
	Sidewall:-		1x1=2	30.0	0.15	0.60	= 5.40	
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	24.0	0.15	0.60	= 4.32	
							30.78 cum.	
	7th 'B' cross-RHS:-	0-30	01	30.0	0.75	0.12	= 2.70	
	Bottom:-	30-60	01	30.0	0.75	0.12	= 2.70	
		60-71.5	01	11.5	0.75	0.12	= 1.04	
	Sidewall:-		1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	30.0	0.15	0.60	= 5.40	
			1x2=2	11.50	0.15	0.60	= 2.07	
							19.31 cum	
					Total =		206.87 cum	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

erial No. .....
ame of Work ..... Fro
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Number
	2	3
	At the rate of Rs.	6371.6
	Item No.07:- Providing and	
	reinforced cement concrete	
	size including centering sh	
	5th 'B' cross-LHS:- 0-26	40
	0-130	215
	5th 'B' cross-RHS:- 0-26	43
	0-130	217
	6th 'B' cross-LHS:- 0-107	175
	6th 'B' cross-RHS:- 0-117	185

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
24.0	0.75	0.15	= 2.16	
30.0	0.15	0.60	= 5.40	
30.0	0.15	0.60	= 5.40	
30.0	0.15	0.60	= 5.40	
24.0	0.15	0.60	= 4.32	
			30.78 cum.	
30.0	0.75	0.12	= 2.76	
30.0	0.75	0.12	= 2.76	
11.5	0.75	0.12	= 1.04	
30.0	0.15	0.60	= 5.40	
30.0	0.15	0.60	= 5.40	
11.50	0.15	0.60	= 2.07	
			19.31 cum	
	Total =		206.87 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427796

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	At the rate of Rs.	6371.66 →					1311797.00
	Item No.07:- Providing and fixing 10cms th precast RCC covering slabs using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending.)						
	5th 'b' cross - LHS:- 0-26	40	0.6	-	0.75	= 18.0	
	0-130	215	0.6	-	0.75	= 96.75	
	5th 'b' cross - RHS:- 0-26	43	0.6	-	0.75	= 19.35	
	0-130	217	0.6	-	0.75	= 97.65	
	6th 'b' cross - LHS:- 0-107	175	0.6	-	0.75	= 78.75	
	6th 'b' cross - RHS:- 0-117	185	0.6	-	0.75	= 83.25	
						393.75.	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7th 'B' cross - LHS:- 0-114	191	0.6	-	0.75 =	85.95	
	7th 'B' cross - RHS:- 0-71.5	118	0.6	-	0.75 =	53.10	
						532.80 sqm	
	Qty ltd to 532.50 sqm						
	At the rate of Rs. 2100.00 →					1118250.00	
Item No.06:-	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregate @ 0.459 cum machine mixed concrete laid in layers not exceeding 15cm th.,						
	5th 'B' cross - LHS:- 0-26	01	22.0	0.25	0.10 =	0.55	
	0-130	01	125	0.25	0.10 =	3.13	
	5th 'B' cross - RHS:- 0-26	01	22.0	0.25	0.10 =	0.55	
	0-130	01	130.0	0.25	0.10 =	3.25	

7-48

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	
	2	
	6th 'B' cross - LHS:- 0-107	
	6th 'B' cross - RHS:- 0-117	
	7th 'B' cross - LHS:- 0-104	
	7th 'B' cross - RHS:- 0-71.5	
	At the rate of Rs.	
Item No.09:-	Providing and	
	5th 'B' cross - LHS:-	10
	5th 'B' cross - RHS:-	11
	6th 'B' cross - LHS:-	04

UREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Dimensions		393.75	
11	0.6	-	0.75 =	85.95	
18	0.6	-	0.75 =	53.10	
				532.80 sqm	
sqm					
2100.00 →				1118250.00	

n position plain cement concrete of mix
with 20mm and down size graded
gregates @ 0.69 cum and fine aggregates
concrete laid in layers not exceeding 15cms

01	22.0	0.25	0.10 =	0.55	
01	12.5	0.25	0.10 =	3.13	
01	22.0	0.25	0.10 =	0.55	
01	13.0.0	0.25	0.10 =	3.25	

7.48

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427797

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Dimensions				7.48	
	6th 'B' cross - LHS:- 0-107	01	105	0.25	0.10 =	2.63	
	6th 'B' cross - RHS:- 0-117	01	110	0.20	0.10 =	2.20	
	7th 'B' cross - LHS:- 0-104	01	102	0.20	0.10 =	2.04	
	7th 'B' cross - RHS:- 0-71.5	01	65	0.20	0.10 =	1.30	
						15.64 cum	90203 = 4
	At the rate of	Rs. 5767.46 →					908.37.50
	Item. No. 09:- Providing and fixing MS grating 260x260mm.,						
	5th 'B' cross - LHS:-	10	-	-	-	= 10	
	5th 'B' cross - RHS:-	11	-	-	-	= 11	
	6th 'B' cross - LHS:-	04	-	-	-	= 04	

MEA…ENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	6th 'B' cross - RHS:-	03	-	-	-	= 03	
	7th 'B' cross - LHS:-	04	-	-	-	= 04	
	7th 'B' cross - RHS:-	06	-	-	-	= 06	
						38 Nos	
	At the rate of Rs: 94.34 →						3584.92
					Total =	44,98823.00	
	4498189 − 449819 − 44982				Add 10% KRIDL charges =	449882.30	
	Grand total: 49,92,989				Add 1% third party Inspection charges =	44988.20	
					Grand total =	4993693.50	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

20/6/18

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

M.N.D
AE(W)
20/6/18

20/6/18

M. A.
Me

Serial No. ..... Royalty charges:-
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	Details 2	3 Co
		Coeff
	1) 40mm : 95.39 cum	0.96
	2) RCC : 205.88 cum	0.85
	3) 20mm : 15.64 cum	0.90
	4) ~~RCC stabs: 533.55 cum x 0.10~~	
	Abstract:-	
	1) Coarse aggregates: 280.	
	2) Fine aggregates: 46.53	

NT BOOK

Number 3	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measure 8
3	-	-	- =	03	
	-	-	- =	04	
	-	-	- =	06	
				38 nos	
	94.34 →				3584.92
			Total =	44,98823.00	
			10% KRIDL charges =	44982.30	
			1% third party Inspection charges =	44988.20	
			Grand total =	4993693.50	

Royalty charges:-

M. A. R. 57 (Rule 116)
Measurement Book

No. B
427798

Serial No. ..... From..... To.....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work Details 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		coarse agg.		fine agg.			
		coeff	qty	coeff	qty		
	1) 40mm : 95.39 cum	0.96	91.57	0.48	45.78		
	2) RCC : 205.88 cum	0.85	174.99	0.416	0.35		
	3) 20mm : 15.64 cum	0.90	14.07	0.45	0.40		
	4) ~~RCC slabs: 533.55sqm x 0.10~~		280.63		46.53		
	Abstract:-						
	1) Coarse aggregates:	280.63	x 108 =		30308.00		
	2) Fine aggregates:	46.53	x 103 =		4792.59		
					35100.59		

AE(W)
20/6/18

20/6/18

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total Rs.	4992989-00	
					IT-	99860-00	
					Cess-	49930-00	
					CBF-	4993-00	
					LR-	35100-00	
					FSD-	249649-00	
					Fire	1000-00	
						441032-00	
					Cheque:	45,51,957-00	

ಬಿಲ್ಲು ಕೊಬಲಗು ರೂ 4992989-00
ಗಡ್ಡೆ ಹಾಗು ಮಾಡಿದ ಇದ್ದಾರೆ ರೂ 441032-00
ಕೊಂದಾಗ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊತ್ತ 455957-00
ರೂ Rs: Forty five lakhs fifty one thousand nine hundred fifty seven only.
ಬೆಳ್ಳಿ ಮುಂಡಾಡ ನಿರ್ದೇಶಕರು
ಅಧಿಕೃತ ಸಹಿದಾರರು
ಮ್ಯಾನೇಜರ್ ... ದಿನಾಂಕ 17/7
17/7

MEASUREMENT BOOK
No. 4410
Page 44